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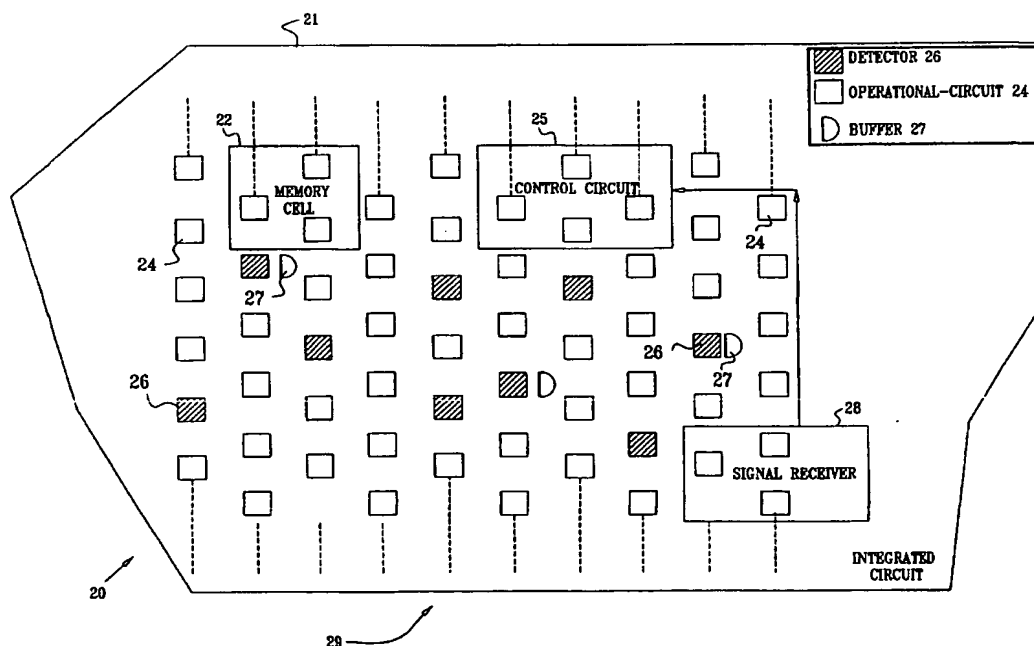
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(54) Title: PREVENTION OF TAMPERING IN ELECTRONIC DEVICES



(57) Abstract: Circuitry for protection of an integrated circuit (20) which includes operational-circuits (24) formed on a chip (21). The circuitry includes a plurality of detectors (26), integrally formed on the chip as part of the integrated circuit and dispersed among the operational-circuits on the chip. The detectors are adapted, in response to radiation incident on the chip, to trigger a security measure so as to prevent tampering with the integrated circuit.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01L 23/62

US CL : 257/355

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 257/355

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 5,053,992 A (Gilberg et al.) 01 October 1991 (01.10.1991), entire document	1-9, 11, 13, 15-22, 26-39, 41-45, 49-60, 62-66 10, 12, 14, 23-25, 40, 46-48, 61
Y	US 6,291,839 B1 (Lester) 18 September 2001 (18.09.2001), entire document	10, 40
Y	US 5,533,123 A (Force et al.) 02 July 1996 (02.07.1996), entire document	23-25, 46-48, 61

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
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